



PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Betschmann, et al.

Serial No.: 10/626,092

Filed: July 24, 2003

Title: THIENOPYRIDINE KINASE  
INHIBITORS

Case No.: 7099.US.01

Group Art No.: 1614

Examiner: (not yet assigned)

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Commissioner for Patents  
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**TRANSMITTAL LETTER**

Dear Sir:

Enclosed herewith for the patent application identified above entitled  
THIENOPYRIDINE KINASE INHIBITORS are the following:

1. Information Disclosure Statement;
2. Form PTO 1449, in duplicate;
3. References as cited on PTO 1449 (19 references); and
4. Return Receipt Postcard.

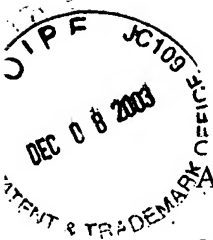
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23492

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Respectfully submitted,  
Betschmann, et al.

Gregory W. Steele  
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Registration No. 33,796  
Attorney for Applicants



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**INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicants bring to the attention of the Examiner the documents listed on the attached PTO 1449. This Information Disclosure Statement is being filed, to the knowledge of the undersigned, before the mailing date of a first Office Action on the merits. Applicants respectfully petition and request that the Examiner consider the listed documents and evidence such consideration by making appropriate notations on the attached form. Copies of the listed documents are attached.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

The Commissioner is authorized to charge our Deposit Account any additional fees (or credit any over payments) that may be required under 37 C.F.R. §§ 1.16 and 1.17 in association with this communication for which full payment has not been tendered.

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Attorney for Applicants



DATE: December 5, 2003 SHEET 1 of 2

Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Modified) PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

7099.US.01

SERIAL NO.

10/626,092

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

APPLICANT(S)

Curtin, et al.

FILING DATE

July 24, 2003

GROUP

(Use several sheets if necessary)

(37 CFR 1.98 (b))

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	INVENTOR	CLASS	SUB CLASS	FILING DATE
	A1	3,470,183	09/30/69	Roth et al.			
	A2	2002/0004511	01/10/02	Luzzio et al.			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLIC-ATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB CLASS	TRANS- LATION YES NO
	B1	0 438 261	24.07.91	EP			
	B2	97/13771	17.04.97	WO			
	B3	01/19828	22.03.01	WO			
	B4	03/22852	20.03.03	WO			

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

C1	Abdelraek et al., "Synthesis of novel thieno[2,3-d]pyrimidine, thieno[2,3-b]pyridine and thiazolo[3,2-a]pyrimidine derivatives and their effect on the production of mycotoxins", Arch. Pharm. (Weinheim) 325:301-305 (1992)
C2	Abdelrazek et al., "Heterocyclic synthesis with nitriles: a new approach to thiophene and thieno-[2,3-d]-pyrimidine derivatives", Journal f. prakt. Chemie. Band 330(4):585-589 (1988)
C3	Abdelrazek et al., "Heterocyclic synthesis with nitriles: a novel synthesis of some thiophene and thieno[2,3-d]pyrimidine derivatives, II [1]", Z. Naturforsch, B.: Chemical Sci. 44(4):488-492 (1989)
C4	Abdelrazek et al., "Heterocyclic synthesis with nitriles: synthesis of some new thiophene and thieno[2,3-d]pyrimidine derivatives IV", Phosphorus, Sulfur, and Silicon 1:271-277 (1996)
C5	Abdelrazek et al., "Heterocyclic Synthesis with Nitriles: synthesis of some novel thiophene and thieno[2,3-d]pyrimidine derivatives", Phosphorus. Sulfur, and Silicon 71:93-97 (1992)
C6	Dave et al., "Gold-Jacob type of reaction in the synthesis of thieno[3,2-e]pyrimido[1,2-c]pyrimidines: a comparison of classical heating vs solvent-free microwave irradiation", Heterocycles 51(8):1819-1826 (1999)
C7	Kandeel et al., "Nitriles in heterocyclic synthesis: a novel synthesis of some thieno[2,3-d]pyrimidine and thieno[2,3-b]pyridine derivatives", Heteroatom Chemistry 7(1):29-33 (1996)
C8	Nelson et al., "Dicyclic and Tricyclic Diaminopyrimidine derivatives as potent inhibitors of cryptosporidium parvum dihydrofolate reductase: structure-activity and structure-selectivity correlations", Antimicrobial Agents and Chemotherapy 45(12):3293-3303 (2001)
C9	Rosowsky et al., "2,4-diaminothieno[2,3-d]pyrimidines as antifolates and antimalarials. 3. Synthesis of 5,6-disubstituted derivatives and related tetracyclic analogs", Journal of Medicinal Chemistry 16(3):191-194 (1973)



C10	Roth et al., "2,4-diaminopyrimidines. The cyclization of 6-phenacylthio and related derivatives to thieno[2,3-d]pyrimidines and thiazolo[3,2-c]pyrimidines", J Med. Chemical 12(2):227-232 (1969)
C11	Roth et al., "The protonation of 2,4-diaminopyrimidines. I. Dissociation constants and substituent effects", J. Organic Chemical 34(4):821-836 (1969)
C12	Sherif et al., "Syntheses with heterocyclic beta-enaminonitriles: an expeditious synthetic approach to polyfunctionally substituted 5-phenyl-sulfonylthiophenes and their fused derivatives", Monatshefte fur Chemie 128:687-696 (1997)
C13	Taylor et al., "Synthesis of thieno[2,3-d]pyrimidine analogues of the potent antitumor agent <i>N</i> -{4-[2-[(2-amino-4(3H)-oxo-7H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl]-benzoyl}-l-glutamic acid (LY231514)," Heterocycles 43(2):349-365 (1996)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO 1449)